



ALTERNATIVE TO PTO/SB/08a/b (08-03)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete If Known</b>	
				Application Number	10/626025-Conf. #1268
				Filing Date	July 24, 2003
				First Named Inventor	Karl H. Torbjorn, Gardenfors
				Art Unit	2635
Sheet	1	of	2	Examiner Name	B. A. Zimmerman
				Attorney Docket Number	34650-00179USC2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		Number-Kind Code <sup>2</sup> (if known)			
BB	A1	US-2002/0094037	07-18-2002	Darabi et al.	
	A2	US-5,937,341	08-10-1999	Suominen	
	A3	US-6,427,068	07-30-2002	Suominen	
	A4	US-6,631,256	10-07-2003	Suominen	
	A5	US-2004/0038655	02-26-2004	Suominen	
	A6	US-4,944,025	07-24-1990	Gehring et al.	
	A7	US-5,003,621	03-26-1991	Gailus	
	A8	US-4,653,117	03-24-1987	Heck	
	A9	US-5,222,144	06-22-1993	Whikehart	
	A10	US-4,852,123	07-25-1989	Bickley et al.	
	A11	US-4,464,770	08-07-1984	Maurer et al.	
	A12	US-5,640,698	06-17-1997	Shen et al.	
	A13	US-5,850,598	12-15-1998	Behrent	
BB	A14	US-6,226,509	05-01-2001	Mole et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)			
BB	B1	-JP A 07-254865 .	10-03-1995	Toshiba Corp.	
	B2	-EP 0 742 647 A1 .	11-13-1996	Matsushita Electric	
	B3	-WO 94/10757 .	05-11-1994	Data-Radio Engineering & Consulting GmbH	
	B4	-WO 97/08842 .	03-06-1997	Pacific Communications Sciences, Inc.	
	B5	-WO 98/08300 .	02-26-1998	Advanced Micro Devices, Inc.	
	B6	-EP 0 797 292 A1	09-24-1997	Philips Electronics N.V.	
	B7	-EP 1 058 396 A1 .	12-06-2000	Motorola, Inc.	
	B8	-WO96/17441 .	06-06-1996	Matsushita Electric Industrial Col. Ltd.	
					Abstract

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
BB	C1	HOOMAN DARABI et al., "A 2.4-GHz CMOS Transceiver for Bluetooth", IEEE Journal of Solid-State Circuits, Vol. 36, No. 12, December 2001		
	C2	D.M. BAKKER et al. "Bluetooth End to End", M&T Books, an imprint of Hungry Mind, Hungry Minds, Inc., ISBN: 0-7645-4887-5, 7 pages		
	C3	DAVID BLANKENBECKLER, "An Introduction to Bluetooth" ThinkBurst Media, Inc. <a href="http://www.wirelessdevnet.com/channels/bluetooth/features/bluetooth.html">www.wirelessdevnet.com/channels/bluetooth/features/bluetooth.html</a> , pp. 1-7		
	C4	ING. ZDENEK MIKESKA, "Parameters of Bluetooth receiver and transmitter", January 2, 2004, Institute of Electrical Engineering and Communication, Brno University of Technology, Czech Republic, pp. 1-9		

Examiner Signature	BRIAN ZIMMERMAN PRIMARY EXAMINER	Date Considered	5/4/05
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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete If Known</b>	
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				Examiner Name	B. A. Zimmerman
Sheet	2	of	2	Attorney Docket Number	34650-00179USC2

66	C5	BROADCOM "BCM2002X 2.4GHz Bluetooth Frac-N-Radio" Product Brief	
	C6	PIETRO ANDREANI et al. "A CMOS gm-C IF Filter for Bluetooth", in Proceedings of CICC 2000, paper 18-6, May 2000, 4 pages	
	C7	JAN CROLS et al., "A Single-Chip 900 MHz CMOS Receiver Front-End with a High Performance Low-IF Topology", IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, Katholieke Universiteit Leuven, Heverlee, Belgium	
	C8	ASAD A. ABIDI, "Direct-Conversion Radio Transceivers for Digital Communications," IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, Katholieke Universiteit Leuven, Heverlee, Belgium, pp. 1390-1411	
	C9	M. STEYAERT, "A 1-GHz Single-Chip Quadrature Modulator", IEEE Journal of Solid-State Circuits, Vol. 27, No. 8, August 1992, pps. 1194-1197	
	C10	JACK P.F. GLAS, "Digital I/Q Imbalance Compensation in a Low-IF Receiver" IEEE Globecom, pp 1461-1466, Nov. 1998	
	C11	VITO BOCCUZZI et al., "Testing the Double Low-IF Receiver Architecture" Proceedings of the CICC, IEEE, 1997, pp. 521-524	
	C12	VALKAMA et al., "BSS Based I/Q Imbalance Compensation in Communication Receivers in the Presence of Symbol Timing Errors", Proc. Second Int. Workshop Independent Component Analysis Blind Signal Separation, Helsinki, Finland, June 2000, pp. 393-398.	
	C13	J. SEVENHANS et al., "An Analog Radio Front-end Chip Set for a 1.9 GHz Mobile Radio Telephone Application" 1994 IEEE International Solid-State Circuits Conference, February 16, 1994	
	C14	J.O. VOORMAN "Continuous-time analog integrated filters" Integrated Continuous-Time Filters, New York IEEE Press, 1993	
	C15	JAN CROLS et al., "An Analog Integrated Polyphase Filter for a High Performance Low-IF Receiver", 1995 Symposium on VLSI Circuits Digest of Technical Papers, Katholieke Universiteit Leuven, Heverlee, Belgium	
	C16	M.J. GINGELL, "Single Sideband Modulation using Sequence Asymmetric Polyphase Networks" Electrical Communication - Volume 48, Number 1 and 2 - 1973	
	C17	STEPHEN A. JANTZI, "A Fourth-Order Bandpass Sigma-Delta Modulator", IEEE Journal of Solid-State Circuits, Vol. 28, No. 3, March 1993	
	C18	JAN CROLS et al., "A 1.5 GHz Highly Linear CMOS Downconversion Mixer" IEEE Journal of Solid-State Circuits, Vol 30, No. 7, July 1993	
	C19	TRUDY D. STETZLER ET AL., "A 2.7-4.5 V Single Chip GSM Transceiver RF Integrated Circuit, IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995	
66	C20	FLOYD M. GARDNER, "Phaselock Techniques, "Phaselock Receivers and Transponders" ISBN: 0-471-04294-3, April 1979	

\*EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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